



Air Force Research Laboratory|AFRL

Science and Technology for Tomorrow's Air and Space Force

Success Story

DR. DANIEL W. REPPERGER WINS DISTINGUISHED JOHN PAUL STAPP AWARD



The Aerospace Medical Association gives the John Paul Stapp Award annually to individuals to recognize outstanding contributions in the field of aerospace biomechanics and to promote progress in protection from injury resulting from ejection, vibration, or impact.



Air Force Research Laboratory
Wright-Patterson AFB OH

Accomplishment

The Aerospace Medical Association recently presented the John Paul Stapp Award to Dr. Daniel W. Repperger, an AFRL Fellow from the Human Effectiveness Directorate's Human Interface Technology Branch. Dr. Repperger has made fundamental contributions to aerospace biomechanics and human protection for more than 30 years. The results have been innovative technology and new knowledge regarding human performance in high-G, high-turbulence, and weightless environments.

Background

Dr. Repperger originally developed patented technology in 1985 for a force-reflecting "haptic" control stick that can assist and help protect a pilot in a high-turbulence environment. The control stick uses virtual force to augment the pilot's neuromuscular control, resulting in improved tracking control and disturbance rejection. Because these unique interfaces involve neuromuscular biomechanics and employ control theory methods, their application is essential to the medical rehabilitation of convulsive individuals.

Dr. Repperger's wide range of career achievements exemplifies his leadership in the scientific community. In addition to his duties as an AFRL Fellow, he serves as associate editor for numerous journals and as an adjunct professor at nearby colleges and universities.

As demonstrated by his 12 US patents, 21 Air Force inventions, and 65 journal articles, Dr. Repperger enhanced United States Air Force state-of-the-art technology. His selection for the John Paul Stapp Award highlights the talent, dedication, and professionalism that strengthen the directorate and the aerospace community as a whole.

Human Effectiveness
Awards and Recognition

Additional information

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